

NESO & Regional Energy Strategic Planning (RESP)

APSE Energy Online Event: Pathways to Net Zero

3 July 2025

Presenters:

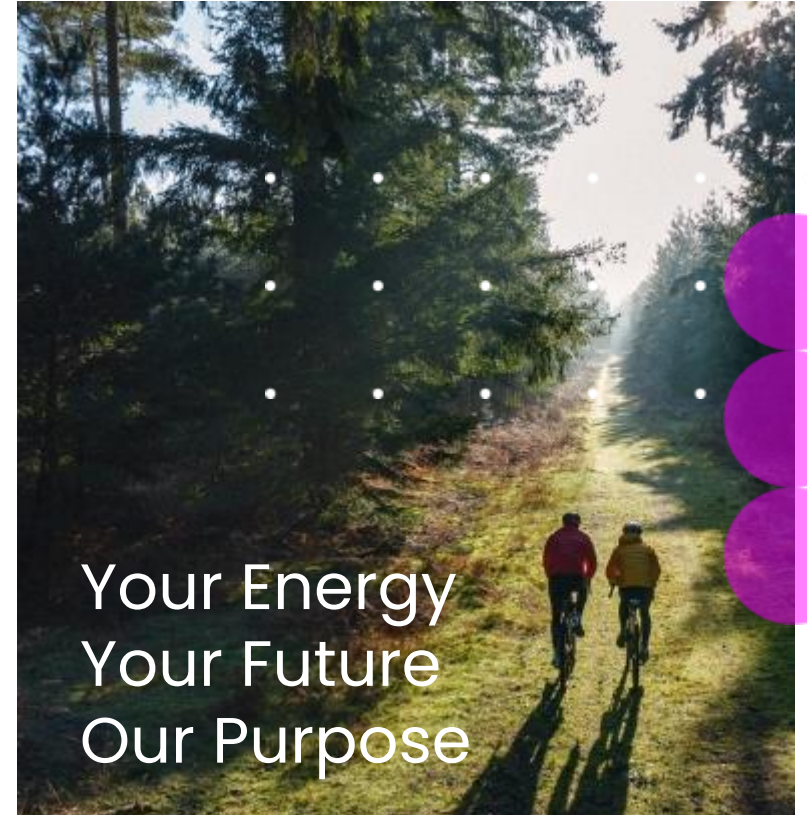
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Wales RESP Team

Version 1.0

The National Energy System Operator (NESO)

NESO is an **independent, public corporation** at the centre of the energy system.

We take a whole system view to create a world where everyone has access to **reliable, clean and affordable energy.**



Our Purpose & Vision



Our purpose is to forge the path to a sustainable future for everyone.



Our vision is a future where everyone has access to reliable, clean and affordable energy; our work will be a catalyst for change across the global community.



Our Governance

NESO is operationally independent of government. We plan the electricity and gas systems and operate the electricity system.

Being independent means we can give impartial recommendations to the government and the regulator.

Our shareholder



The Department for Energy Security & Net Zero is responsible for national policy and providing strategic direction and targets in relation to UK energy

Our regulator



Ofgem is the energy regulator for Great Britain

Independent NESO Board

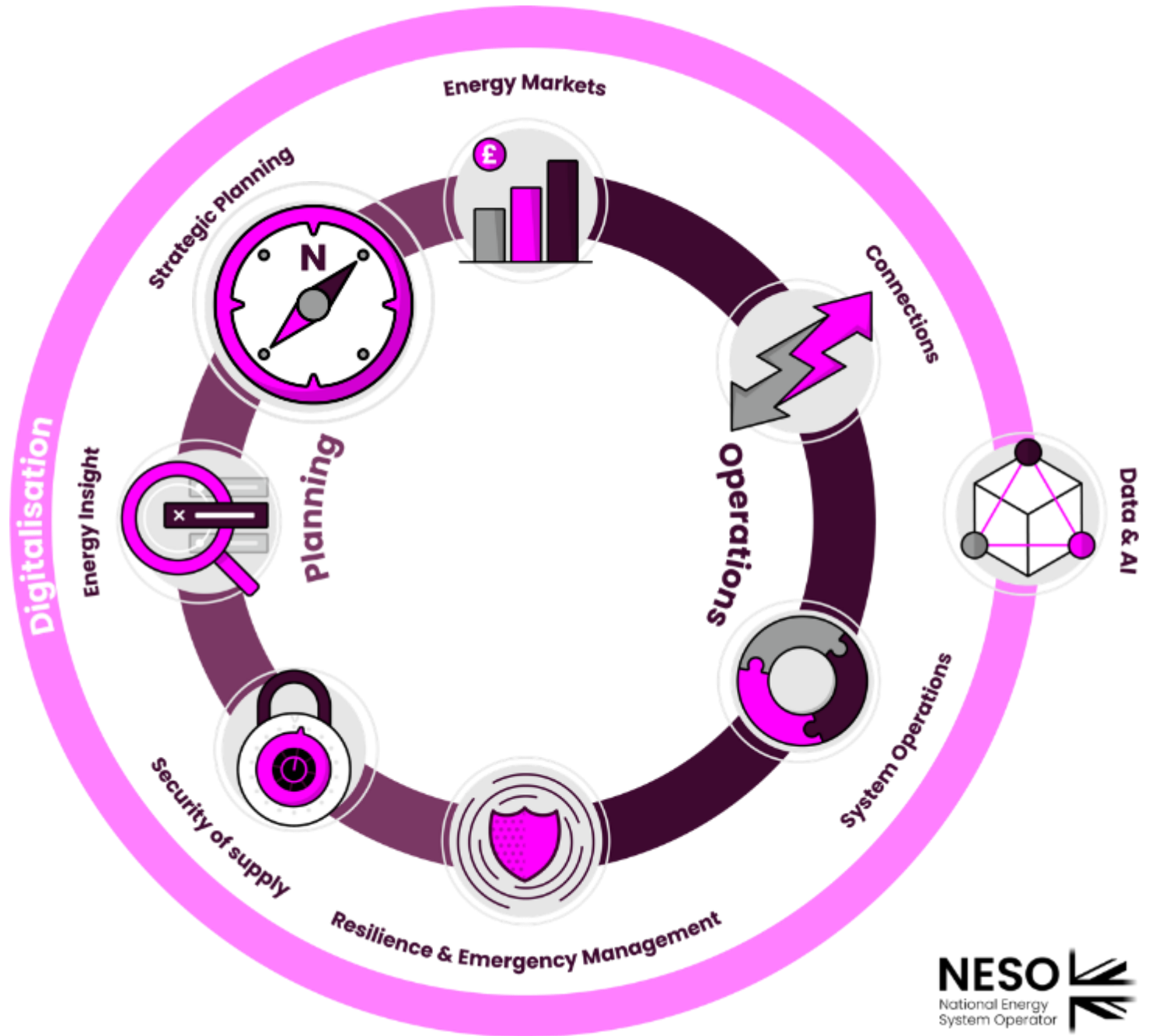
The NESO Board oversees our strategic direction, ensuring compliance with regulations and mitigation of corporate risks.

The Board ensures that we build strong relationships with customers and it evaluates performance.

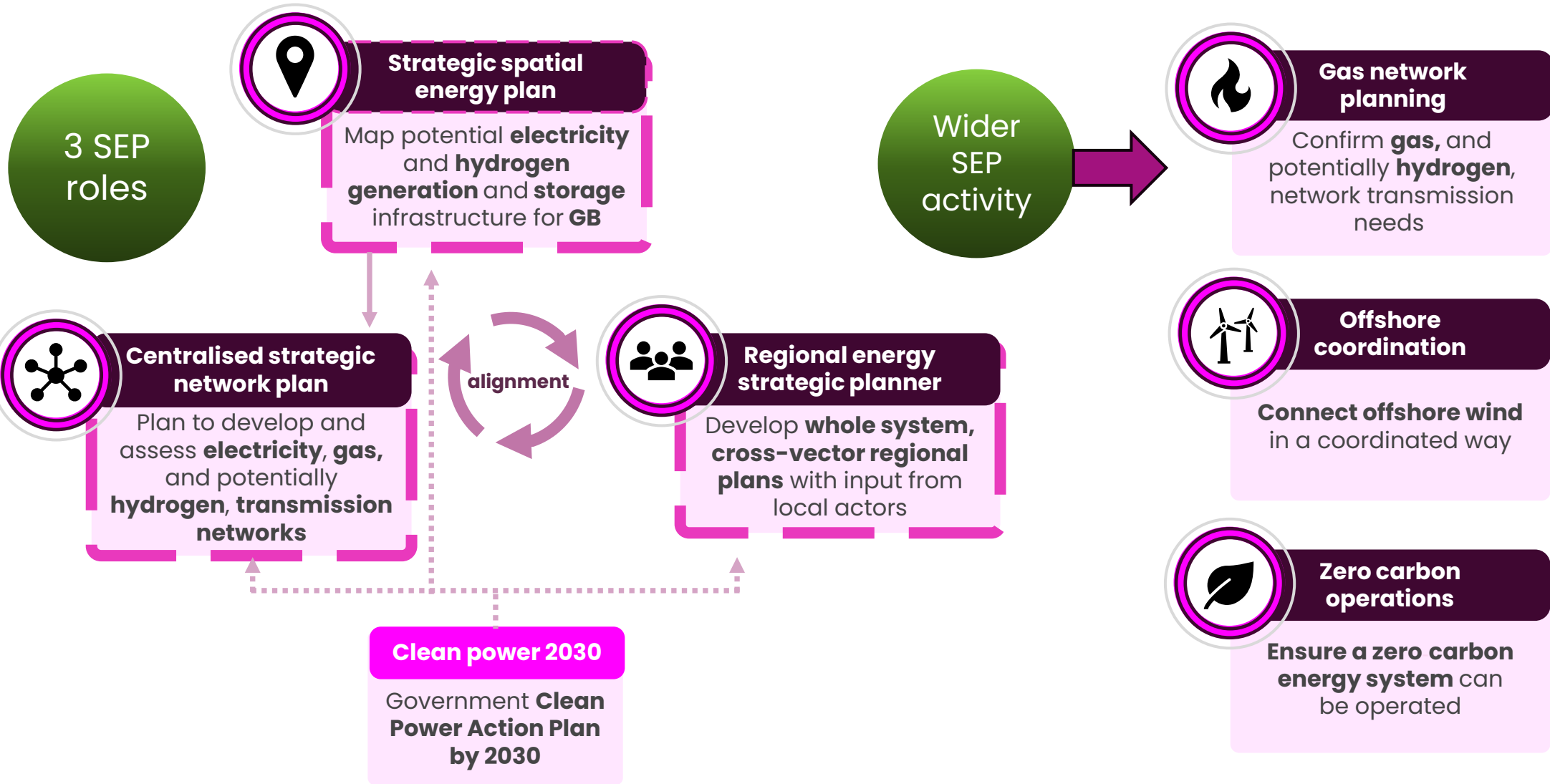
What we do

Strategic Planning

We take a long-term approach to planning, that identifies whole energy system needs and ensures that the system can be designed and built accordingly.



Strategic energy planning (SEP)



RESPs – why do we need them?

The Why...

1

Local voices & needs – ensure that local voices & needs are at the heart of the way we plan the energy system

2

To drive investment – ensure local areas get the energy infrastructure they need to realise local goals

3

Ensure efficient network investment – that keeps bills low by looking at the whole energy system

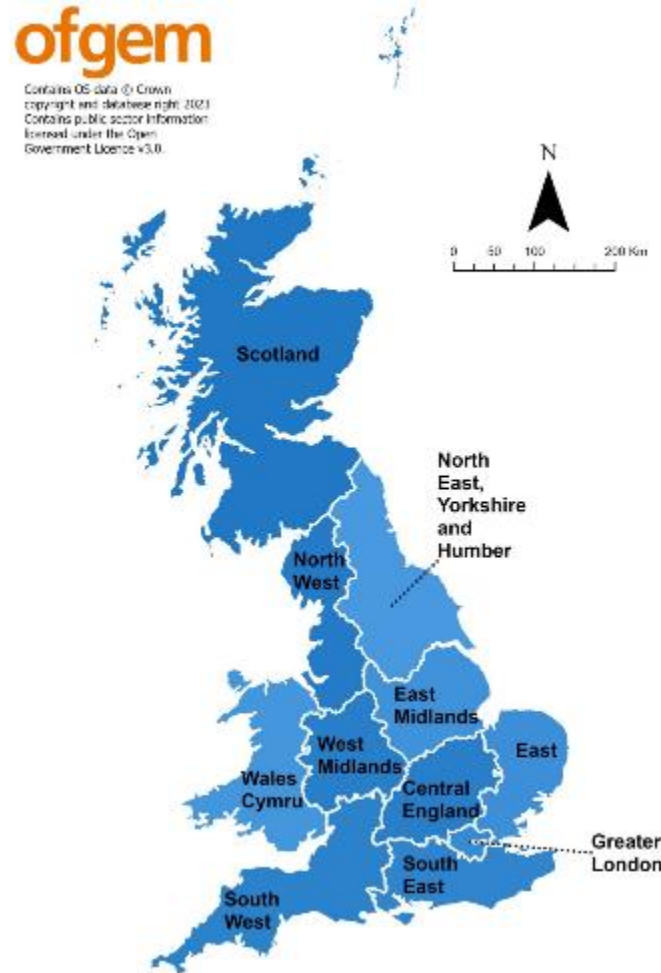


RESP regions & boundaries

The Where...

North regions/nations

- Scotland
- North East, Yorkshire and the Humber
- North West
- East Midlands
- West Midlands



South regions/nations

- Wales
- Central England
- East
- Greater London
- South East
- South West

Five components of a RESP

The
What...

1

Regional Context

Comprehensive view of regional conditions & priorities

2

Consistent Planning Assumptions

Assumptions to drive consistent derivation of network impacts

3

Strategic Investment Need

Identify needs which are of high economic/ system value and key to regional priorities

4

Pathways

Spatial models of future supply and demand

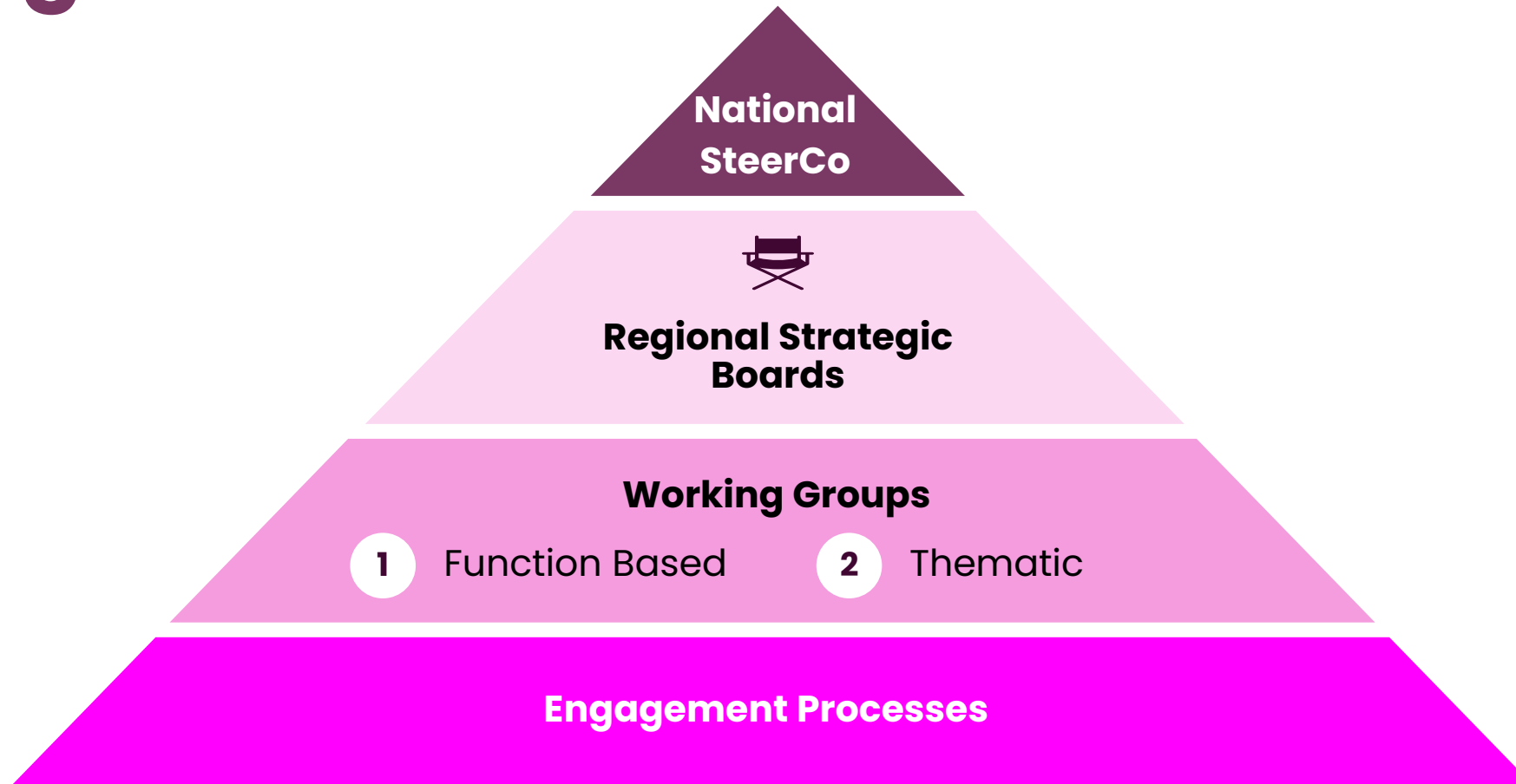
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Spatial Context

Geospatial view of pathways against network conditions

Who's involved: Governance & engagement

The Who...



Transitional RESP (tRESP) Overview

Ofgem is collaborating with NESO to develop transitional RESPs and regional investment pathways that ensure reliable, affordable electricity and align network investments with regulatory expectations ahead of full RESP implementation in 2027

What is tRESP?

1. Serves as a **transitional bridge** to Enduring RESP
2. Focused on supporting **electricity DNO (Distribution Network Operator) business plans**
3. Provides each region with a **short-term Pathway (2025-2035)**
4. Feeds into the **long-term Pathway (2035-2050)**

Why now?

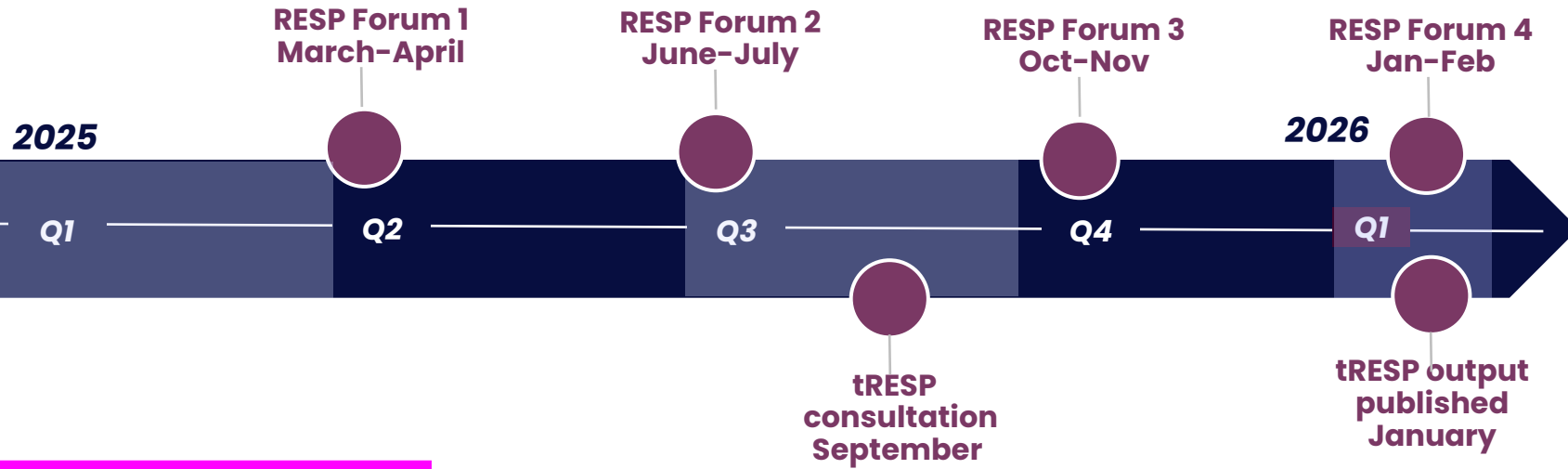
1. **Urgent change**: Energy sector transformation and CP30 demand immediate action
2. **Unlocking value sooner**: Enduring RESP won't be ready until 2027
3. **DNO business planning dates are fixed** (2028-2033) and require input now
4. **Early stakeholder engagement to integrate regional needs** within energy planning



How to get involved

The When...

Transitional RESP



Enduring RESP



RESP Forums – Summer 2025

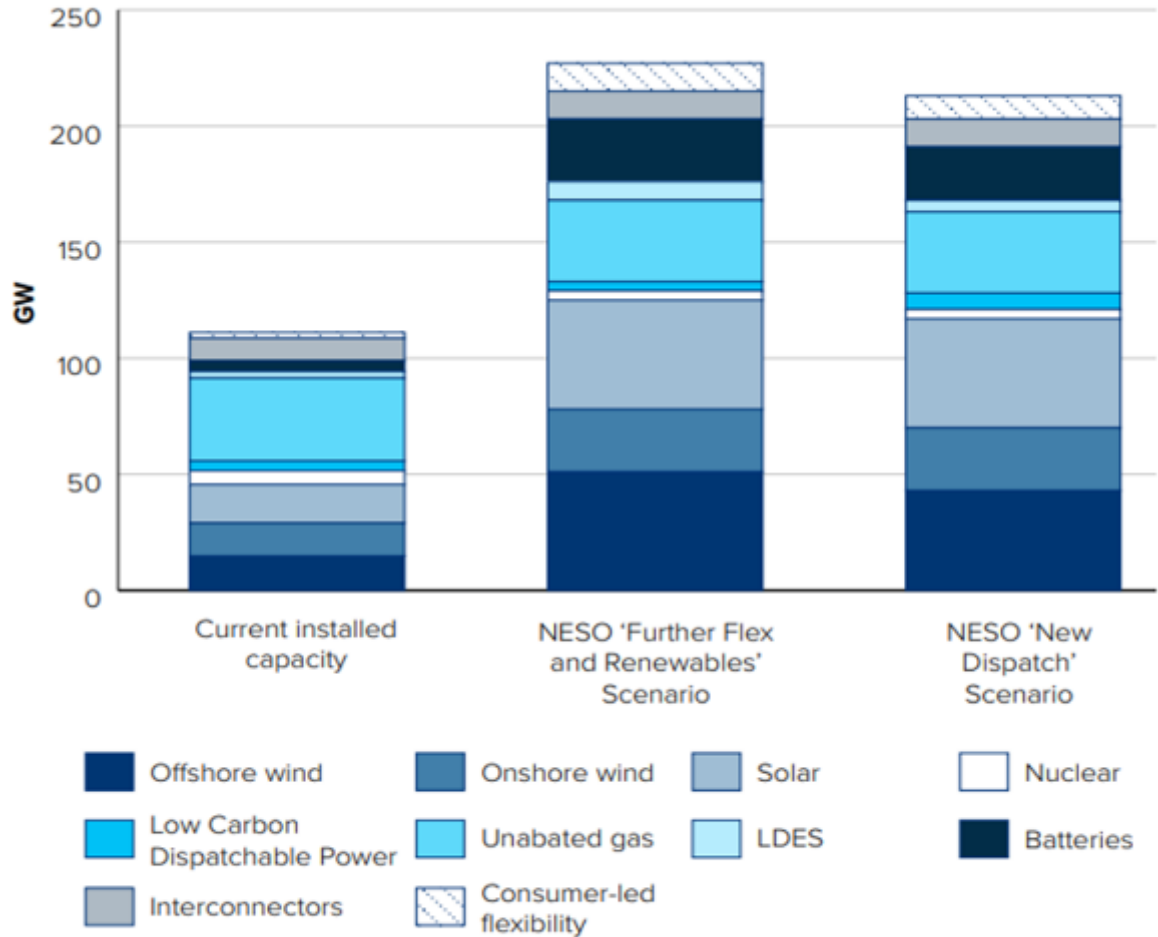
Region	Date	Time
Scotland	26 th June	11am – 12.30pm
North West	2nd July	1.00 – 2.30pm
London	7 th July	2.00 – 3.30pm
Central England	7th July	10.00 – 11.30am
North East, Yorkshire & the Humber	8 th July	10.00 – 11.30am
West Midlands	8 th July	1.30 – 3.00pm
South West	9 th July	3.00 – 4.30pm
East of England	10 th July	2.00 – 3.30pm
Wales	10 th July	10.30am – 12pm
South East	9 th July	10.00 – 11.30am
East Midlands	10 th July	10.30am – 12pm



Introduction to RESP Webinar

Watch the webinar
[here](#)

Decarbonisation: where next?



Installed capacity in 2030 compared to current installed capacity (GW)

- UK Government ambition for GB to be supplied with clean power by 2030
- NESO provided independent advice on pathway to achieve Government's Clean Power Action Plan
- Capacity already in the grid connections pipeline; beyond 2030 demand increases

Source: Table 1 and NESO (2024), 'Clean Power 2030'

Connections Reform

- Connections Reform is critical to our energy and economic future, to meet both growing demand for electricity and this country's environmental targets in 2030 and 2050.
- Our reforms will prioritise ready-to-go projects, ensuring they move to the front of the queue, aligning with the Government's plan for clean power by 2030 and once developed, the Strategic Spatial Energy Plan (SSEP).
- It will provide clarity in terms of how much and what new network and projects are needed, improving signals to investors and developers for 2030 and beyond.

Any questions?

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